

# Figure 4 TOUGH GREY 10

## Production Rigid

High speed material for the production of rigid parts



### Applications

- Rapid design iteration
- Strong functional parts for:
  - Automotive styling parts
  - Form, fit and function testing
  - Durable assemblies and snap fits
  - Bezels, covers, cases
  - Master patterns for RTV molding or other uses
- Short-run manufacturing of rigid parts
- Consumer goods
- Ready for painting or plating



### Physical Properties

Colour	Dark Grey
Type	ABS

### Liquid Material

Solid Density (@ 25°C)	1.11g/cm <sup>3</sup>
Layer Thickness (mm)	0.05

### Mechanical Properties

		TEST/ISO
Tensile Strength (MPa)	<b>50</b>	ASTM D638
Tensile Modulus (MPa)	<b>2180</b>	
Elongation at Break (%)	<b>25</b>	
Elongation at Yield (%)	<b>4</b>	
Flexural Strength (MPa)	<b>75</b>	ASTM D790
Flexural Modulus (MPa)	<b>2070</b>	
Notched Izod Impact Strength (J/m)	<b>29</b>	ASTM D256
Unnotched Izod Impact Strength (J/m)	<b>598</b>	ASTM D4812
Heat Deflection Temperature (°C)		ASTM D648
@ 0.45 MPA	<b>59</b>	
@ 1.82 MPA	<b>51</b>	
Co-efficient of Thermal Expansion (ppm/°C)		ASTM E831
<Tg	<b>93</b>	
>Tg	<b>165</b>	
Glass Transition (Tg)	<b>58</b>	DMA, E''
Shore Hardness	<b>81D</b>	ASTM D2240
Water Absorption (%)	<b>0.34</b>	ASTM D570

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